



## SEQUENCE LISTING

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CHEN, CAILIN  
ANDRADE-GORDON, PATRICIA

<120> HUMAN PRSS11-LIKE S2 SERINE PROTEASE AND USES THEREOF

<130> ORT-1644-CIP

<140> 10/617,443  
<141> 2003-07-02

<150> 10/189,099  
<151> 2002-07-03

<160> 31

<170> PatentIn Ver. 3.3

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Arg Asn Val Pro Leu Ser Ser Gly Ser Gly Phe Ile Met Ser Glu Ala  
50 55 60  
Gly Leu Ile Ile Thr Asn Ala His Val Val Ser Ser Asn Ser Ala Ala  
65 70 75 80  
Pro Gly Arg Gln Gln Leu Lys Val Gln Leu Gln Asn Gly Asp Ser Tyr  
85 90 95  
Glu Ala Thr Ile Lys Asp Ile Asp Lys Lys Ser Asp Ile Ala Thr Ile  
100 105 110  
Lys Ile His Pro Lys Lys Leu Pro Val Leu Leu Leu Gly His Ser  
115 120 125  
Ala Asp Leu Arg Pro Gly Glu Phe Val Val Ala Ile Gly Ser Pro Phe  
130 135 140  
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145 150 155 160

Glu Gly Arg Glu Leu Gly Leu Arg Asp Ser Asp Met Asp Tyr Ile Gln  
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 Thr Asp Ala Ile Ile Asn Tyr Gly Asn Ser Gly Gly Pro Leu Val Asn  
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 Leu Asp Gly Glu Val Ile Gly Ile Asn Thr Leu Lys Val Thr Ala Gly  
                  195                 200                 205  
 Ile Ser Phe Ala Ile Pro Ser Asp Arg Ile Thr Arg Phe Leu Thr Glu  
                  210                 215                 220  
 Phe Gln Asp Lys Gln Ile Lys Asp Trp Lys Lys Arg Phe Ile Gly Ile  
                  225                 230                 235                 240  
 Arg Met Arg Thr Ile Thr Pro Ser Leu Val Asp Glu Leu Lys Ala Ser  
                  245                 250                 255  
 Asn Pro Asp Phe Pro Glu Val Ser Ser Gly Ile Tyr Val Gln Glu Val  
                  260                 265                 270  
 Ala Pro Asn Ser Pro Ser Gln Arg Gly Gly Ile Gln Asp Gly Asp Ile  
                  275                 280                 285  
 Ile Val Lys Val Asn Gly Arg Pro Leu Val Asp Ser Ser Glu Leu Gln  
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 Glu Ala Val Leu Thr Glu Ser Pro Leu Leu Glu Val Arg Arg Gly  
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 Gln Pro Glu His Cys Glu Gly Gly Arg Ala Arg Asp Ala Cys Gly Cys  
 50 55 60  
 Cys Glu Val Cys Gly Ala Pro Glu Gly Ala Ala Cys Gly Leu Gln Glu  
 65 70 75 80  
 Gly Pro Cys Gly Glu Gly Leu Gln Cys Val Val Pro Phe Gly Val Pro  
 85 90 95  
 Ala Ser Ala Thr Val Arg Arg Arg Ala Gln Ala Gly Leu Cys Val Cys  
 100 105 110  
 Ala Ser Ser Glu Pro Val Cys Gly Ser Asp Ala Asn Thr Tyr Ala Asn  
 115 120 125  
 Leu Cys Gln Leu Arg Ala Ala Ser Arg Arg Ser Glu Arg Leu His Arg  
 130 135 140  
 Pro Pro Val Ile Val Leu Gln Arg Gly Ala Cys Gly Gln Gly Gln Glu  
 145 150 155 160  
 Asp Pro Asn Ser Leu Arg His Lys Tyr Asn Phe Ile Ala Asp Val Val  
 165 170 175  
 Glu Lys Ile Ala Pro Ala Val Val His Ile Glu Leu Phe Arg Lys Leu  
 180 185 190  
 Pro Phe Ser Lys Arg Glu Val Pro Val Ala Ser Gly Ser Gly Phe Ile  
 195 200 205  
 Val Ser Glu Asp Gly Leu Ile Val Thr Asn Ala His Val Val Thr Asn  
 210 215 220  
 Lys His Arg Val Lys Val Glu Leu Lys Asn Gly Ala Thr Tyr Glu Ala  
 225 230 235 240  
 Lys Ile Lys Asp Val Asp Glu Lys Ala Asp Ile Ala Leu Ile Lys Ile  
 245 250 255  
 Asp His Gln Gly Lys Leu Pro Val Leu Leu Leu Gly Arg Ser Ser Glu  
 260 265 270  
 Leu Arg Pro Gly Glu Phe Val Val Ala Ile Gly Ser Pro Phe Ser Leu  
 275 280 285  
 Gln Asn Thr Val Thr Thr Gly Ile Val Ser Thr Thr Gln Arg Gly Gly  
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Lys Glu Leu Gly Leu Arg Asn Ser Asp Met Asp Tyr Ile Gln Thr Asp  
 305 310 315 320

Ala Ile Ile Asn Tyr Gly Asn Ser Gly Gly Pro Leu Val Asn Leu Asp  
 325 330 335

Gly Glu Val Ile Gly Ile Asn Thr Leu Lys Val Thr Ala Gly Ile Ser  
 340 345 350

Phe Ala Ile Pro Ser Asp Lys Ile Lys Lys Phe Leu Thr Glu Ser His  
 355 360 365

Asp Arg Gln Ala Lys Gly Lys Ala Ile Thr Lys Lys Tyr Ile Gly  
 370 375 380

Ile Arg Met Met Ser Leu Thr Ser Ser Lys Ala Lys Glu Leu Lys Asp  
 385 390 395 400

Arg His Arg Asp Phe Pro Asp Val Ile Ser Gly Ala Tyr Ile Ile Glu  
 405 410 415

Val Ile Pro Asp Thr Pro Ala Glu Ala Gly Gly Leu Lys Glu Asn Asp  
 420 425 430

Val Ile Ile Ser Ile Asn Gly Gln Ser Val Val Ser Ala Asn Asp Val  
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Gly Asn Glu Asp Ile Met Ile Thr Val Ile Pro Glu Glu Ile Asp Pro  
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 35 40 45

Arg Val Thr Tyr Gly Thr Pro Ser Leu Trp Ala Arg Leu Ser Val Gly  
 50 55 60

Val Thr Glu Pro Arg Ala Cys Leu Thr Ser Gly Thr Pro Gly Pro Arg  
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Ala Gln Leu Thr Ala Val Thr Pro Asp Thr Arg Thr Arg Glu Ala Ser  
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Glu Asn Ser Gly Thr Arg Ser Arg Ala Trp Leu Ala Val Ala Leu Gly  
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 Ala Gly Gly Ala Val Leu Leu Leu Trp Gly Gly Arg Gly Pro  
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 Pro Ala Val Leu Ala Ala Val Pro Ser Pro Pro Pro Ala Ser Pro Arg  
 130 135 140  
 Ser Gln Tyr Asn Phe Ile Ala Asp Val Val Glu Lys Thr Ala Pro Ala  
 145 150 155 160  
 Val Val Tyr Ile Glu Ile Leu Asp Arg His Pro Phe Leu Gly Arg Glu  
 165 170 175  
 Val Pro Ile Ser Asn Gly Ser Gly Phe Val Val Ala Ala Asp Gly Leu  
 180 185 190  
 Ile Val Thr Asn Ala His Val Val Ala Asp Arg Arg Arg Val Arg Val  
 195 200 205  
 Arg Leu Leu Ser Gly Asp Thr Tyr Glu Ala Val Val Thr Ala Val Asp  
 210 215 220  
 Pro Val Ala Asp Ile Ala Thr Leu Arg Ile Gln Thr Lys Glu Pro Leu  
 225 230 235 240  
 Pro Thr Leu Pro Leu Gly Arg Ser Ala Asp Val Arg Gln Gly Glu Phe  
 245 250 255  
 Val Val Ala Met Gly Ser Pro Phe Ala Leu Gln Asn Thr Ile Thr Ser  
 260 265 270  
 Gly Ile Val Ser Ser Ala Gln Arg Pro Ala Arg Asp Leu Gly Leu Pro  
 275 280 285  
 Gln Thr Asn Val Glu Tyr Ile Gln Thr Asp Ala Ala Ile Asp Phe Gly  
 290 295 300  
 Asn Ser Gly Gly Pro Leu Val Asn Leu Asp Gly Glu Val Ile Gly Val  
 305 310 315 320  
 Asn Thr Met Lys Val Thr Ala Gly Ile Ser Phe Ala Ile Pro Ser Asp  
 325 330 335  
 Arg Leu Arg Glu Phe Leu His Arg Gly Glu Lys Lys Asn Ser Ser Ser  
 340 345 350  
 Gly Ile Ser Gly Ser Gln Arg Arg Tyr Ile Gly Val Met Met Leu Thr  
 355 360 365  
 Leu Ser Pro Ser Ile Leu Ala Glu Leu Gln Leu Arg Glu Pro Ser Phe  
 370 375 380  
 Pro Asp Val Gln His Gly Val Leu Ile His Lys Val Ile Leu Gly Ser  
 385 390 395 400

Pro Ala His Arg Ala Gly Leu Arg Pro Gly Asp Val Ile Leu Ala Ile  
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 Gly Glu Gln Met Val Gln Asn Ala Glu Asp Val Tyr Glu Ala Val Arg  
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 Thr Gln Ser Gln Leu Ala Val Gln Ile Arg Arg Gly Arg Glu Thr Leu  
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Leu Ser Ser Pro Arg Tyr Lys Phe Asn Phe Ile Ala Asp Val Val Glu  
     35                  40                  45

Lys Ile Ala Pro Ala Val Val His Ile Glu Leu Phe Leu Arg His Pro  
     50                  55                  60

Leu Phe Gly Arg Asn Val Pro Leu Ser Ser Gly Ser Gly Phe Ile Met  
     65                  70                  75                  80

Ser Glu Ala Gly Leu Ile Ile Thr Asn Ala His Val Val Ser Ser Asn  
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Ser Ala Ala Pro Gly Arg Gln Gln Leu Lys Val Gln Leu Gln Asn Gly  
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Asp Ser Tyr Glu Ala Thr Ile Lys Asp Ile Asp Lys Ser Asp Ile  
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Ala Thr Ile Lys Ile His Pro Lys Lys Leu Pro Val Leu Leu Leu  
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Gly His Ser Ala Asp Leu Arg Pro Gly Glu Phe Val Val Ala Ile Gly  
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Ser Pro Phe Ala Leu Gln Asn Thr Val Thr Thr Gly Ile Val Ser Thr  
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Ala Gln Arg Glu Gly Arg Glu Leu Gly Leu Arg Asp Ser Asp Met Asp  
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 260 265 270  
 Lys Ala Ser Asn Pro Asp Phe Pro Glu Val Ser Ser Gly Ile Tyr Val  
 275 280 285  
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 290 295 300  
 Gly Asp Ile Ile Val Lys Val Asn Gly Arg Pro Leu Val Asp Ser Ser  
 305 310 315 320  
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